

American Megatrends

MegaRAC G4 card

(Series 940)

MAN-940-QH
01-04-07



Thank you for purchasing the MegaRAC G4 card. Please take a few minutes to review this quick guide before beginning the installation process. If you require a further explanation of any item covered in this guide, please refer to the installation instructions on your *MegaRAC G4 CD*.

Contents for the MegaRAC G4 card

You should have received the following:

- an American Megatrends MegaRAC® G4 card
- a MegaRAC® G4 card Quick Installation Guide
- this MegaRAC® G4 User's Guide (located on the MegaRAC® G4 CD)
- a MegaRAC® G4 CD
- a VGA Splitter Cable
- a MegaRAC G4 USB Cable with a power jack input for the AC Adapter
- MegaRAC® G4 feature connector cable
- an AC Adapter (Optional)

Technical Support

If you need help installing, configuring, or running the MegaRAC G4 card, call American Megatrends technical support at 770-246-8645.

Technical Support Web Site: <http://www.ami.com/support/>

Technical Support Email: support@ami.com

Hardware Installation

Use the following steps to install the MegaRAC G4 card.

Step	Action
1	Unpack the MegaRAC G4 card (and check jumper settings)
2	Plug in the MegaRAC G4 card into the host system and attach internal cables
3	Connect external cables
4	Confirm the motherboard's BIOS settings
5	Initial configuration of the MegaRAC G4 card
6	Install/Boot to an Operating System

Note: The AC Adapter (optional) continues to provide power to the MegaRAC card in the event that the host system is on standby mode (3.3V STB) or powered on.

Step 1 Unpack the MegaRAC G4 card (and check jumper settings)

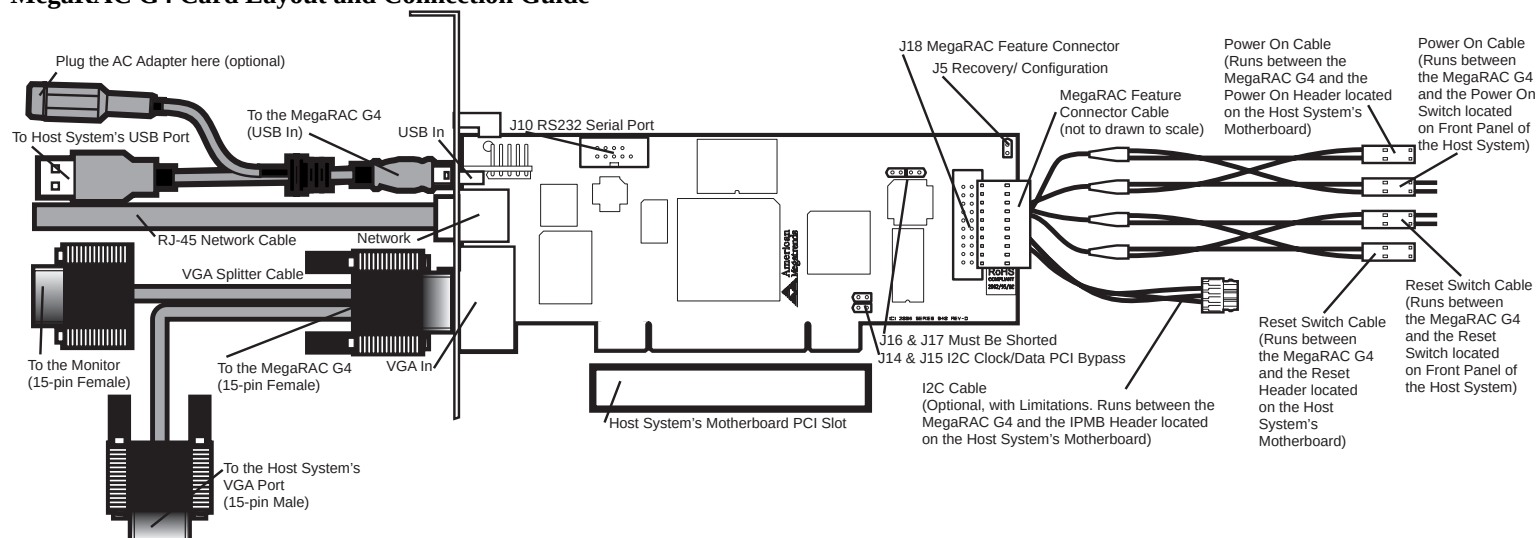
Inspect the cardboard carton for obvious damage. If damaged, call 770-246-8600. Leave it in its original packing.

Jumper Setting

- J5 Confirm that no jumper is installed (pins one and two, open).
- J14 & J15 If your host's system's motherboard has support for I2C on the PCI slots, place a short pins one and two. If not, confirm that no jumper is installed (pins one and two, open).
- J16 & J17 Verify that these two headers are each shorted with a jumper. If J16 and J17 are not shorted, short pins one and two on both J16 and J17.

Note: J14 and J15 can be used in place of the MegaRAC Feature Cable to gather I2C bus information from the motherboard.

MegaRAC G4 Card Layout and Connection Guide



Step 2 Plug in the MegaRAC G4 card into the Host System and Attach Internal Cables

Physically plug in the MegaRAC G4 card into any available PCI slot inside the host system.

Connector

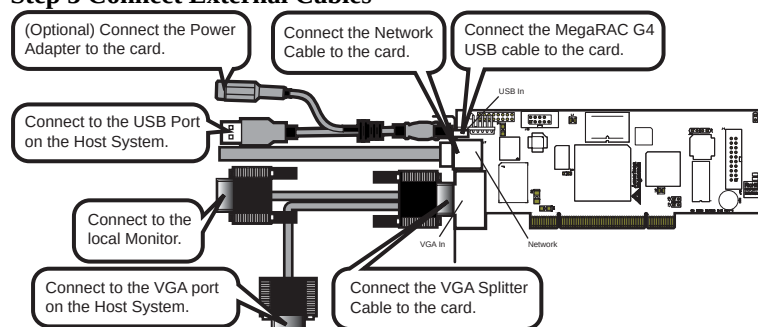
J10 Serial Port
J18 MegaRAC® Feature Connector

Description

You can connect an external 9 pin serial port connector to this header. This header is primarily used to text redirect over the serial port. Inspect the MegaRAC Feature Connector Cable. There are six connectors on the MegaRAC Feature Connector Cable. One side has one connector and it plugs into the MegaRAC card. The other end has a "Power On" pair, "Reset Switch" pair and an I2C connector. The "Power On" pair allows you to control the power on your host system. The "Reset Switch" pair also allows you to reset the host system. These two pair of cables allows you to maintain you host system's power and reset switch functionality. Connect them according to the illustration above.

OEM FEATURE ONLY: The I2C connector attaches to your motherboard's I2C port (Hardware Health Monitoring port). The pin-out of the I2C port varies from motherboard to motherboard. Also the name of the I2C port varies. It may be listed as an IPMI or IPMB port. Your motherboard may not have this port at all. Instead, it may have its Hardware Health Monitoring (I2C Clock and I2C) Data routed through the PCI slot. In this case, use the jumpers at J14 and J15. If your motherboard does not have Hardware Health Monitoring support, tie this cable so that it does not come into contact with anything inside the chassis. The I2C connector requires that you have a Sensor Definition Kit (SDK/SDR.DAT) file created along with a Soft Processor (SP.DAT) file. These two files tell the MegaRAC software what it is monitoring.

Step 3 Connect External Cables



- Attach the VGA splitter to the MegaRAC® G4 card. Connect the female end to the monitor and the male end to your host system's VGA port.
- Connect the RJ45 LAN cable from your local network to your MegaRAC® G4 card.
- Connect the MegaRAC G4 USB cable from your host system's USB port to your MegaRAC® G4 card.
- Connect your AC adapter to the MegaRAC G4 USB cable.

Note: The AC Adapter (optional) continues to provide power to the MegaRAC card in the event that the host system is on standby mode (3.3V STB) or powered on.

Step 4 Confirm the Motherboard's BIOS Settings

Power on the motherboard and enter the BIOS. Using the following table, confirm that your motherboard's BIOS settings are correct.

BIOS Section	Setting
Boot Options> Removable Devices	AMI Virtual Floppy or USB Boot Device
Boot Options> ATAPI CDROM	AMI Virtual CDROM or USB Boot Device
Advanced> PCIPnP> Configuration> Legacy USB Support	Enable

Save the BIOS settings and restart the computer.

Note: Make sure that your motherboard BIOS supports Legacy USB devices, USB Boot or Boot to USB.

Note: On some motherboards and server boards, depress the <CTRL>, <ALT>, and <ESC> keys simultaneously to enter the BIOS. On others use the <F2> keys. See your server's documentation for more information on entering the BIOS setup.

Step 5 Initial Configuration of the MegaRAC G4 card, Continued

Note: When you log in using the **root** user name and password, you have full administrative powers. It is advised that once you log in, you change the **root** password.

Setup your Client System's Internet Browser

You must first set up Internet Explorer browser on the client system before you can redirect the host system's console. Set up Internet Explorer's *Security Settings* to allow the downloading of *Signed ActiveX controls* and also allow it to run *Signed ActiveX controls*. See the *MegaRAC G4 User's Guide* located on the *MegaRAC G4 CD* for more information.

Note: At the time this document was being created, the MegaRAC ActiveX controls were in the process of being "signed" (by VeriSign®) so that they could be authenticated by Internet browsers. If redirection does not operate properly, you may have to set up Internet Explorer's *Security Settings* to allow the downloading of *Unsigned ActiveX controls* and also allow it to run *Unsigned ActiveX controls* as well.

Step 5 Initial Configuration of the MegaRAC G4 card

The MegaRAC® G4 card is ready to be used at this stage. If you have an AC Adapter attached to the MegaRAC® G4 card's USB cable, it will be powered on even if your host system is not powered on.

At this point you may wish to do an initial configuration of the MegaRAC® G4 card in order to find its *IP Address*.

You can access the MegaRAC® G4 card from another system via the network. AMI refers to this other system as the client system. To do this, you must know the MegaRAC® G4 card's *IP Address*. If you have installed the MegaRAC® G4 card on a network that uses DHCP, you can search the network for the MegaRAC® G4 card. To locate and find out its *IP Address*, run the *G4ConfigApp* Utility located on your CD.

G4ConfigApp

The MegaRAC card can be located using the *G4ConfigApp* utility. Once the IP Address is located or configured, you can use your Internet browser to access the MegaRAC card remotely. The *G4ConfigApp* utility is a GUI-based program that must be run from the host machine. The host machine is the computer that has the MegaRAC card installed in it.

To run the *G4ConfigApp* program, double left click the **G4ConfigApp.exe** icon located in the following directories on your *MegaRAC™ G4 CD*:
CDROM\ServerAgent\Windows

The *G4ConfigApp Dialog* window will appear. When prompted for the user name and password, use **root** for the User Name and **superuser** for the Password. Both are all lower-case characters. Once logged in, you will be able to get the MegaRAC card's current network information.

Step 6 Install/Boot to an Operating System

At this stage if you already have an operating system loaded on the host system, you can boot to it. While the operating system is booting up, it will detect the MegaRAC G4 card's USB devices (that make device redirection possible).

The operating system will default to the standard drivers for all devices. If you are running Linux on your host system, it will continue to use default drivers.